

Vertical Short Take-Off and Landing Optical Landing System (VSTOLS OLS)

Solicitation Number: N68335-10-RFI-0167

Agency: Department of the Navy

Office: Naval Air Systems Command

Location: Naval Air Warfare Center Aircraft Division Lakehurst :

Sources Sought

Synopsis:

Added: Mar 11, 2010 5:17 pm

This is a Request for Information (RFI).NAVAIR is conducting a market survey of industry to determine potential interested sources that have the skills, experience, qualifications and knowledge required to successfully procure a Vertical Short Take-Off and Landing Optical Landing System (VSTOL OLS) in accordance with the objectives herein.NAVAIR will use this RFI as a determination for size standards for possible future competitions.A complete drawing package for the VSTOL OLS will be available and sent to interested parties upon request.NAVAIR is requesting an estimated hardware delivery of 3/2014.

Background:

When landing at night, visual cues play an integral part of the safe approach, hover and landing for the pilot of an aircraft, especially when heavy weather is present. Therefore, additional visual landing aids have been developed by the U.S. Navy to assist helicopters and VSTOL aircraft to achieve safe landings on amphibious assault ships. The VSTOL OLS provides an optimal glide path and trend information to the pilot upon approach and navigates the aircraft to a point 50 ft. above the flight deck at the stern of the ship. A virtual image of a ball is aligned between two horizontal datum arm assemblies when the approach is on the optimum glide path. The pilot is able to determine if they are coming in too high or too low as the ball transitions either above or below the datum arm lights. The ball will change in color if the approach is dangerously low. The system is required to be dynamically stabilized to compensate for the ship's pitch and roll motion, and be visible to a pilot up to 0.8 nautical miles out and at a ceiling of 200ft.

Technical:

The VSTOL OLS consists of 14 separate units. Major assemblies include two indicator boxes that contain stepper motors and various optics, an electronics enclosure containing various circuit card assemblies, an electrical enclosure with various power filtering and conversion devices, and a remote panel with additional circuit cards and control mechanisms. Precision tooling is required to manufacture many of the parts, as the tolerances can be extremely tight. The system provides a dynamically stabilized, for both ship pitch and roll, optical display to a pilot during landing approach. The system requires 115VAC, 60Hz, 3-phase delta power to operate. Additionally, system test equipment will need to be manufactured to perform diagnostics and acceptance testing prior to system delivery. Drawings for the test equipment will be available when needed.

Any documentation furnished is upon the condition that it or knowledge of its possession will not be released to another nation without specific authority from the Department of the Navy of the United States; that it will not be used for other than military purposes; that individual or corporate rights originating in the information, whether patented or not, will be respected and; that the information will be provided the same degree of

security afforded it by the Department of Defense of the United States. Regardless of any other markings on this document, it may not be declassified or downgraded without the written approval of the originating U.S. agency.

Representatives of US companies who have subsidiaries in foreign countries expecting to participate will also be considered under foreign national rules.

Since the specifications and drawings are subject to Export Control Laws, the companies are required to register with the United States/Canada Joint Certification Office through the Defense Logistics Information Service (DLIS), and provide a copy of their executed DD Form 2345 to the contracting office before a copy of the drawing package is mailed. It is mandatory to register with the Central Contractor Registration (CCR) Database. The CCR provides the DUNS (Data Universal Numbering System + 4 numbers) number and a company's CAGE (Commercial and Government Entity) code that will be required to conduct business with the Department of Defense.

Submission Information: Copies of the DD Form 2345 and written responses to this RFI are requested to be submitted by 12 April 2010 to Mr. David Andreoli, (732)-323-5208, Fax # (732)-323-7440. Electronic responses are recommended and encouraged and should be submitted to the following email address:

david.andreoli@navy.mil.

Contracting Office Address:

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General Information

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Sources Sought

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